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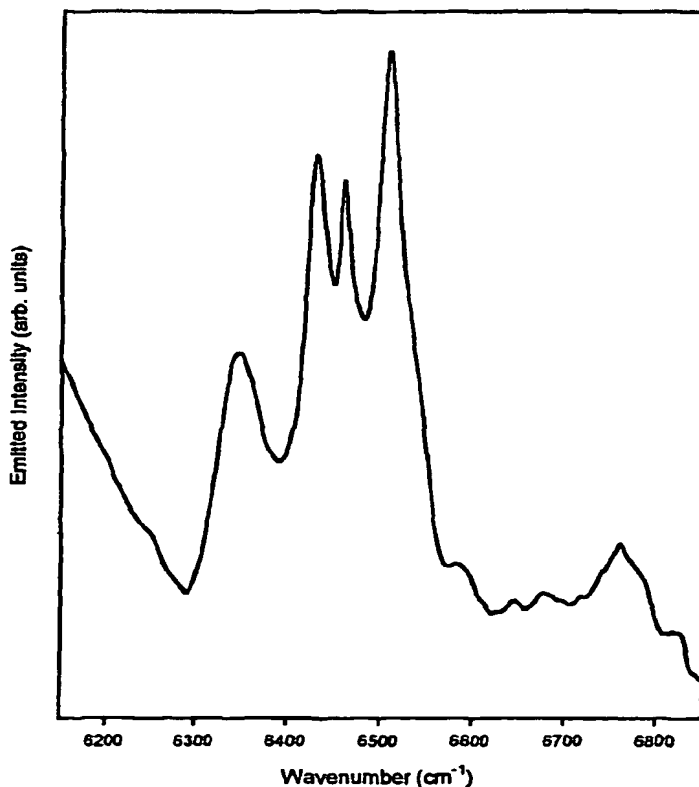
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(54) Title: NANOFIBERS WITH MODIFIED OPTICAL PROPERTIES



(57) Abstract: Nanofibers modified to alter their optical properties in the infrared part of the electromagnetic spectrum, which nanofibers can be used in applications ranging from identification technology to energy conversion devices (*e.g.*, thermophotovoltaics) to stealth technology. The desired optical properties can be obtained by modifying the fibers with rare earth and other materials and then can be incorporated into garments or other composite structures or can be applied as coatings on solid surfaces, to be used in a number of applications that benefit from selective emission properties.



SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA,  
UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

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PCT/US03/26449

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : D02G 3/00

US CL : 428/389

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 428/389,379,367,368; 423/447.1,447.2

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
EAST

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2002/0060516 A1 (KAWATE et al) 23 May 2002 (23.05.02) see entire document	1-20
Y	US 2002/0057045 A1 (TSUKAMOTO et al) 16 May 2002 (16.05.02) see entire document	1-20

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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